

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 77-109

WASTE DISCHARGE REQUIREMENTS FOR:

SHELLMAKER, INCORPORATED
PORT SONOMA, SONOMA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region,
(hereinafter called the Board) finds that:

1. Shellmaker, Incorporated, (hereinafter called the discharger) submitted a report of waste discharge dated October 18, 1976.
2. Shellmaker, Inc. currently operates Port Sonoma, a 40 boat marina on the east side of the mouth of the Petaluma River between Sears Point Road (State Route 37) and the Northwestern Pacific Railroad. The discharger has excavated a 3000 foot channel adjacent to his existing marina. He proposes to breach a dike so as to fill the channel to provide berthing for an additional 360 boats to be berthed at Marina II and III, as shown in Attachment A. The proposed development will, in addition, have a 200-seat restaurant located at Marina II and some commercial development. Waters within the existing and proposed marina areas are waters of the State.
3. The marina complex presently includes restrooms, pumpout facilities for both vessel holding tanks and chemical toilets, and several offices and dwelling units. The chemical toilet wastes are disposed of at a Class I sanitary landfill. All other wastes are presently disposed of to a subsurface disposal system consisting of two septic tanks and a leach field. The discharger proposes to construct a sewer system for the proposed development, to which pumpout facilities for vessel holding tanks, marina restrooms, the restaurant, and commercial development will be connected. Wastewater generated from the proposed development will be heated by means of an Imhoff tank followed by a 4.5 acre evaporation pond to be located at the northeast corner of the property, as shown in Attachment A.
4. The discharger has submitted a Water Quality Control Plan as required by this Board's Order No. 76-90. In order to maintain adequate circulation of the Marina waters during all periods of the year and to maintain the water quality at a satisfactory level, the discharger proposes to install a pump with a capacity of 350,000 gallons per hour. Water from Marina III and connecting waters would be pumped to the end of the dredge storage area at the existing channel near Marina I.
5. The County of Sonoma has prepared a final environmental impact report dated May 1974 in accordance with the California Environmental Quality Act (Public Resources Code Section 2100 et. seq).

6. The project as approved by the County of Sonoma will have the following significant effects on the environment:
 - a. Maintenance dredging will temporarily degrade water quality.
 - b. The operation and management of the Marina could degrade water quality within the Marina.
 - c. Indirect pressure for additional development in the area.
7. The Discharge Prohibitions, Water Quality Limitations, and Provisions of this Order mitigate or avoid the adverse environmental impacts listed in 6.a. and 6.b. above. With regard to 6.c., control over additional development in the area is within the responsibility and jurisdiction of another public agency, the County of Sonoma, and the County can and should control such development to mitigate or avoid significant environmental effects thereof.
8. The Board, in April 1975, adopted a Water Quality Control Plan for the San Francisco Bay basin. The Plan contains water quality objectives for the Petaluma River and for San Pablo Bay.
9. The beneficial uses of the Petaluma River and San Pablo Bay include:
 - a. Recreation
 - b. Navigation
 - c. Fish migration and habitat
 - d. Habitat and resting for waterfowl, migratory birds and certain rare and endangered species
 - e. Industrial water supply
 - f. Commercial fishing and shellfish harvesting
10. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
11. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, that Shellmaker, Incorporated, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder shall comply with the following:

A. Sewage Disposal Specifications

1. The treatment or disposal of waste shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. Bypassing of wastewater from the collection system is prohibited. If bypassing should occur, the discharger shall notify this Board's Executive Officer as soon as possible of said bypass.

3. The discharge of sewage or other wastes to waters of the State is prohibited.
4. Wastes discharged to leachfields:
 - a. Shall remain below ground at all times.
 - b. Shall not cause degradation of groundwater suitable for domestic or agricultural use.
 - c. Shall not leach into waters of the Marina.
5. Waste at the surface of the evaporation pond shall meet the following quality limits at all times:

In any grab sample:

Dissolved Sulfide	0.1 mg/l maximum
Dissolved Oxygen	2.0 mg/l minimum

6. The evaporation pond shall be protected from erosion, and washout and flooding having a predicted frequency of once in 100 years. A minimum of two feet of freeboard shall be maintained in the pond.
7. The public shall be effectively excluded from the waste treatment areas.

B. Water Quality Limitations

1. The application of copper or other conservative toxicants to control growth of algae or aquatic plants is prohibited.
2. Adequate circulation and mixing, or other methods of water quality management, shall be provided so as to maintain the following levels of water quality at all points within the marina:
 - a. Dissolved Oxygen 5.0 mg/l minimum. Annual median - 80% saturation
 - b. pH Variation from ambient pH within the adjacent waters of the Petaluma River by no more than 0.5 pH units.
 - c. Chlorophyll "a" 50 µg/l maximum. When concentration of chlorophyll "a" in the adjacent Petaluma river exceed this the concentrations within the marina shall be not more than 20 percent above river concentrations.
 - d. No visible, floating, suspended or deposited oil or other products of petroleum origin.

3. Water quality within the marina shall be managed so as to prevent the presence of toxic or other deleterious substances in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife, or waterfowl, or which render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.

C. Provisions

1. The discharger shall submit to the Executive Officer a contingency plan for the continuous operation of facilities for the collection, treatment, and disposal of waste pursuant to the Regional Board's Resolution No. 74-10 by October 1, 1977.
2. This Order does not authorize the discharge of wastewater from residential units such as homes, trailers, or houseboats, except for the single houseboat now in use by the marina watchman. Should such authorization be requested, the Board shall first require that a government entity assume responsibility for sewage treatment and disposal.
3. The discharger shall implement applicable provisions of his Water Quality Control Plan, submitted pursuant to this Board's Order No. 76-90. Measures beyond those specified in the Plan shall be implemented as necessary to comply with the limitations of Section B. of this Order.
4. The discharger shall comply with all Sections of this Order immediately upon adoption.
5. The discharger shall file with the Board technical reports on self-monitoring work performed according to the detailed specifications contained in any Monitoring and Reporting Program as directed by the Executive Officer.
6. This Board's Order No. 76-90 adopted on August 17, 1976, is hereby rescinded.
7. The discharger shall permit the Regional Board:
 - (a) Entry upon premises in which an effluent source is located or in which any required records are kept,
 - (b) Access to copy any records required to be kept under terms and conditions of this Order,
 - (c) Inspection of monitoring equipment or records, and
 - (d) Sampling of any discharge.

8. Collected screenings, sludges, and other solids removed from liquid wastes shall be disposed of at a legal point of disposal, and in accordance with the provisions of Division 7.5 of the California Water Code. For the purpose of this requirement, a legal point of disposal is defined as one for which waste discharge requirements have been prescribed by a regional water quality control board and which is in full compliance therewith.

9. In the event the discharger is unable to comply with any of the conditions of this Order due to:

- (a) Breakdown of waste treatment equipment;
- (b) Accidents caused by human error or negligence; or
- (c) Other causes such as acts of nature,

the discharger shall notify the Executive Officer by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written notification shall include pertinent information explaining reasons for the non-compliance and shall indicate what steps were taken to correct the problem and the dates thereof, and what steps are being taken to prevent the problem from recurring.

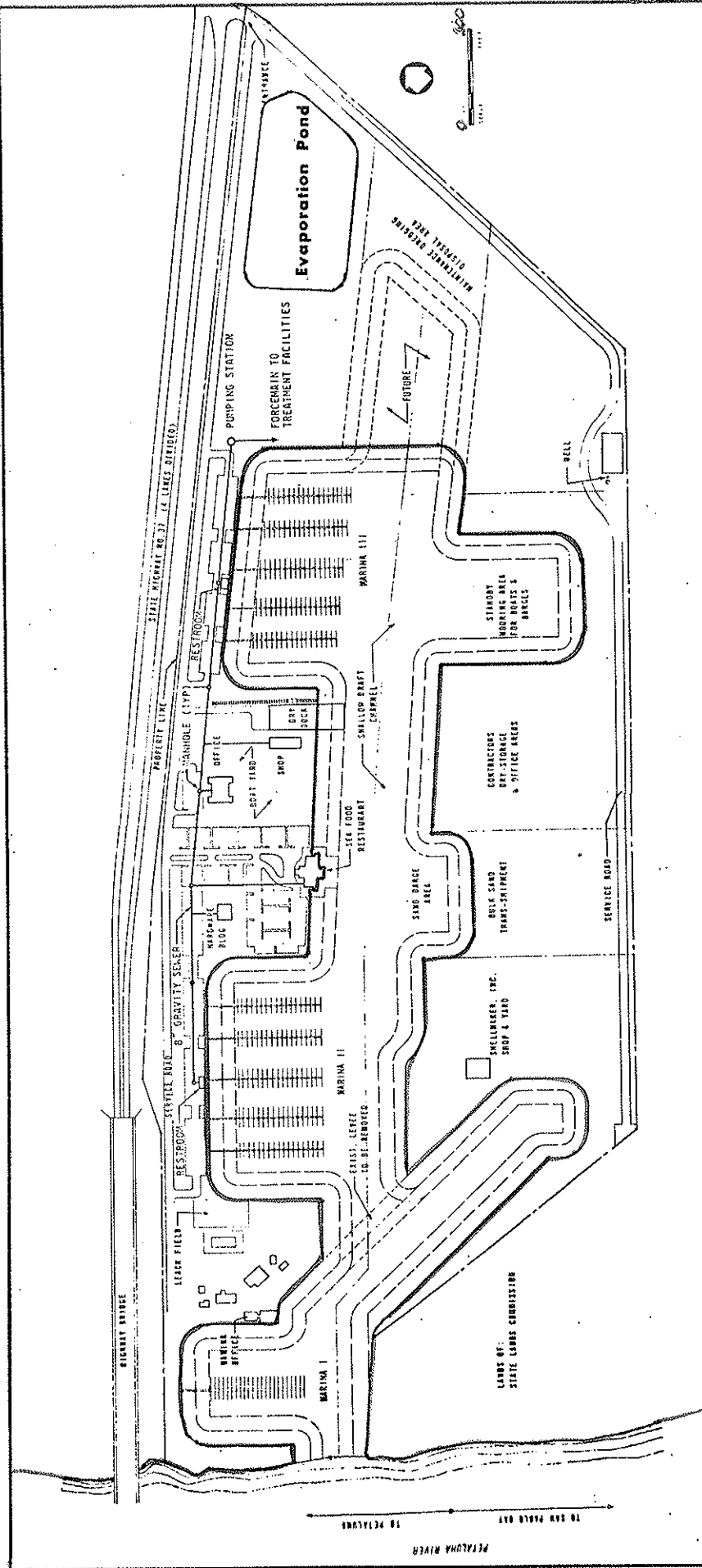
10. In the event of any change in control or ownership of land or waste discharge facilities presently owned or controlled by the discharger, the discharger shall notify the succeeding owner or operator of the existence of this Order by a letter, a copy of which shall be forwarded to this Board.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on July 19, 1977.

FRED H. DIERKER
Executive Officer

Attachments:

Map
Self-Monitoring Program



STATE OF CALIFORNIA
REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ATTACHMENT A

PORT SONOMA SITE PLAN
AND PROPOSED SEWER SYSTEM

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

Shellmaker, Inc.

Port Sonoma

Petaluma, Sonoma County

ORDER NO. 77-109

CONSISTS OF

PART A, dated 1/78

AND

PART B

PART B

I. DESCRIPTION OF SAMPLING STATIONS

A. Marina Water

<u>Station</u>	<u>Description</u>
LG-1	At a point in the Port Sonoma Marina approximately 400 feet from the confluence of the marina with the Petaluma River.
LG-2	At a point in the Port Sonoma Marina approximately 1200 feet from the confluence of the marina and the Petaluma River.
LG-3	At a point in the Port Sonoma Marina approximately 2,000 feet from the confluence of the marina and the Petaluma River.
LG-4	At a point in the Port Sonoma Marina approximately 2800 feet from the confluence of the marina and the Petaluma River.
LG-5	At a point where recirculation pump flow can be determined.

B. Reference Station

<u>Station</u>	<u>Description</u>
R-1	At a point in the Petaluma River approximately 200 feet upstream from the confluence of the Petaluma River and Port Sonoma Marina.

C. Underground Disposal Area

<u>Station</u>	<u>Description</u>
S-1 to S-n	Anywhere surfacing waste appears

D. Evaporation Pond

<u>Station</u>	<u>Description</u>
P-1	At any point in the pond within one foot from the surface.

II. SCHEDULE OF SAMPLING AND ANALYSIS

- A. The schedule of sampling and analysis shall be that given as Table I.
- B. Reports shall be submitted quarterly.

I, Fred H. Dierker, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

- 1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 77-109.
- 2. Includes only the following paragraphs of Part A:
 - A., B., C.2., C.5., D.3., D.4., E.1., E.2., E.3., F.1., F.2., F.3., and F.4.
- 3. Is effective on the date shown below.
- 4. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger and revisions will be ordered by the Executive Officer.

Attachment:
Table I

FRED H. DIERKER
Executive Officer

Effective Date 3/25/81

TABLE I
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSES

SAMPLING STATIONS	LG-1 to LG-4 & R-1			LG-5	All Other Sta.		P-1		
TYPE OF SAMPLES	G	G		Cont.	O		G		
Date of Sample	Mar 2 thru Sept 30	Oct 1 thru Mar 1							
Duration of Pumping (hours)				E					
Dissolved Oxygen (mg/l)	(1) 2W	M		(2) Cont			M		
pH	M	3M					M		
Standard Observations					E ⁽³⁾		M		
Dissolved Sulfide							M		

LEGEND FOR TABLE

TYPES OF SAMPLES

G = grab sample
Cont = continuous sampling
BS = bottom sediment sample
O = observation

FREQUENCY OF SAMPLING

2/Y = once in March and once in September
E = each occurrence
2W = every 2 weeks
M = monthly
3M = every 3 months
Q = quarterly, once in March, June, Sept. and December

- (1) To be taken at the surface and one foot above the bottom at 8 a.m.
(2) To be taken by an automatic dissolved oxygen probe with pump intertie to initiate pumping before minimum dissolved oxygen level (5 mg/l) is reached.
(3) Observations to include whether or not wet spots or lush growth exist in (a) area of septic tank and/or (b) leach field area.